**INTEGRATING RATIONAL FUNCTIONS OF THE FORM**

Rule: since .

Examples: Integrate these functions:

Since , then fits the form where .

Therefore .

Since , can be made to fit the form by adding a

multiplier: .

The multiplier is 3, i.e. the integral can be written as the equivalent

, which is in the form .

So .

using the rule .

,

which is in the form . Thefore

Delta Ex 17.4 pg 171